

From ab4el.com Wed Sep 7 01:05:42 1994
From: david@rmit.edu.au (David Taylor)
Subject: RE: 160M fun

Hello QRPers,

This talk about 160 is interesting. It's a band that has had its own character here in south-east VK. A decade or two ago it was *the* band for long technical ragchews each evening, with Melbourne's leading experimenters (eccentrics ?) going on for hours about low band transmitters, antenna systems, audio and modulation topics. All on AM of course, so all you needed was a tweaked BC radio to hear the good sounding audio.

Night after night I used to listen to these blokes, many of whom also held Broadcast Operators Certificates. John, VK3ACA built an analogue computer to experiment with separating the amplitude and frequency components of an SSB signal, processing the components, then recombining them. The discussions that ensued were fascinating and would go on long into the night!

Each morning at 11.00am the old timers held a morning coffee net. I would listen if I was at home, and even visited a few of them that I could get to on my bike, to see their rooms full of ex-military rack mounted gear with huge glowing valves and mercury vapour rectifiers.

160 was not a DX band then, and when one of the AM stations worked a 'W' it was news for weeks! Sideband and CW were unusual, many of the valve BC receivers in use didn't have BFO's! People complained about the poor sounding signals from riceboxes sending one sideband with a bit of carrier wound in!

Sorry that I've strayed from the QRP topic, but talk of 160 reminded me of earlier, simpler times. At least I've never heard HF packet on 160 - that would have the old timers reaching for the sedatives!

David VK3JKP

David Taylor
RMIT (Bundoora Campus)
david@rmit.edu.au

From ab4el.com Wed Sep 7 14:21:14 1994
From: teda@meaddata.com (Ted Albert)
Subject: RE: 160M fun

> Hello QRPers,
>
> This talk about 160 is interesting. It's a band that has had its own
> character here in south-east VK. A decade or two ago it was *the* band for
> long technical ragchews each evening, with Melbourne's leading
> experimenters (eccentrics ?) going on for hours about low band
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> David VK3JKP
>
>
> David Taylor
> RMIT (Bundoora Campus)
> david@rmit.edu.au
>
>

160 is still used this way up here in the Ohio area. There is a dedicated
lowfer bunch that meets nightly on 1983 ssb to discuss the rigs they are
building. Last winter they were into some interesting modulation schemes
to get around QRN. There are several AM hotspots from 1900 - 2000 that
spend hours discussing building and the tube versus semiconductor debate.

I have spent many hours talking to locals on 160 ssb with the Argo II and

trying to get folks to kick off the amps and try QRP. Not much luck in getting converts, but I usually get the folks copying the mail to jump in and ask questions about QRP. I have had more success on 17 meter SSB getting folks to drop power and try QRP.

73 de Ted, KF8EE

From ab4el.com Wed Sep 7 18:09:22 1994
From: Jeff Gold <JMG@tntech.edu>
Subject: ARK4

All,

need to get some money.. have an ARK4 built tested..with all factory mods, works great.. has ALL options except keyer.. kit was \$200.. will sell for first \$145 +shipping if anyone is interested.

72,73

Jeff, AC4HF

From ab4el.com Wed Sep 7 05:03:13 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: Another no-flame test

Thanks to Phil Temples for this one--seems to work, or at least sending him traffic aliased this way works. If this one appears, this gives me two different ways to alias message onto qrp-l. By the way, the aliases to bu.edu and something.edu which others suggested did NOT work, having disappeared into black holes; didn't even reject.

And now for a free offer to make up for busying up the network with this test--remember the Tektronix model 130 LC tester I mentioned in the Idea Exchange of the QRP Quarterly recently? Want it? It's yours, if you can come and get it. (I hate to mail it, or even UPS it--big and bulky..well, sort of...and probably would not survive.) If no one within driving distance bites, might possibly consider shipping. 73 and Queue Our Pea de WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From ab4el.com Wed Sep 7 00:50:01 1994
From: mont@netcom.com (Mont Pierce)
Subject: Re: CA Wednesday nite

> Gang,
>
> Fixing to get on plane to MtView CA.
>
> I'll be at the Summerfield Suites, Sunnyvale
> (408) 745-1515 until Thursday.
>
> Let's do the Two Guys from Italy, Wednesday Nite,
> 7pm. Be there, be square.
>
> dit dit de K5FO/6
>
> Chuck Adams K5FO CP-60
> adams@sgi.com

Sure!! How many times do you expect us to fall for this?? :)

72,
km6wt

--
Mont Pierce

```
+-----+
| Ham Call: KM6WT           Internet: mont@netcom.com |
|   bands: 80/40/20/15/10/2 |
|   modes: cw,ssb,fm        |
+-----+
```

From ab4el.com Wed Sep 7 20:30:21 1994
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: Re: CA Wednesday nite

Mont,

I am in CA and I did make it this time. :-)

I'm remote logged into the system in Dallas.
I like the cooler wx out here too.

It's still on for tonight at Two Guys from Italy.

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Wed Sep 7 01:19:15 1994
From: ryme@wpsmtp.bloomu.edu
Subject: Dust off the Drawing Board Part II

Hello again,

Sorry about the truncated last message. This seems to be a classic case of the "network mail server ate my homework". {:^) Not sure what caused the problem, but let's try it again.

Well, here is the results of the second INET Rig Questionnaire.

The collective response described a basic system consisting of:

1. modular construction
2. plug-in expansion capability
3. built up from R2/T2 central block
4. expansion features
 - a. RTTY/Digital/CW encode and decode
 - b. CPU frequency control
5. CW/SSB modes
6. LCD display
7. 5 watt RF output
8. multiple band capability
 - order of bands favored:
HF 40/20/15/10/80/WARC/160
VHF 2/6/220 and up
9. include RIT/QSK/AGC

According to these requirements, we should investigate the soundness of the design ideals verses the desire and necessity to build this equipment. We need to explore the cost effective side of the rig, as compared to finding such an item already marketed.

With this in mind, I now call for volunteers to evaluate design features, ease of , and the overall cost of this system.

Below is a list of committees to be filled. Anyone interested in assisting, please contact me at: ryme@husky.bloomu.edu.(We should keep our traffic off the mailing list in order to save the list bandwidth.) Let me if I missed any area to review.

- _ XCVR RF modules (both rec. front end & trans. RF PA)
- _ VFO modules
- _ audio modules (mic and rec. out)
- _ AGC control
- _ QSK/keying/sidetone
- _ LCD display system
- _ RTTY/digital encode/decode

- _ CPU frequency control
- _ R2/T2 testing & interfacing to the external modules
- _ power supply, regulation and requirements

73,
John N3PFF

From ab4el.com Wed Sep 7 21:35:31 1994
From: <Mailfax@dogwood.mhs.compuserve.com>
Subject: Re: For Sale: TEN-TEC Argonaut 509

>>> From: RHETT@willow.MHS.COMPUSE.RVE.COM <<< To:
{internet:qrp-1@netcom.com}

Subject: For sale, TEN-TEC Argonaut 509

I'm selling my prize Argonaut 509 in order to "upgrade" to an Index Labs or "Argo" transceiver. The 509's condition is fair to good externally, clean front panel, recent dial cord and pointer replacement. WORKS with the best of the Argonaut 509's. On the rear panel, the RF RCA jack has been replaced with a BNC connector. This deal also includes a "grey" TEN-TEC desk mic and shipping for \$300.00.

I also have an Oak Hills Research SCAF filter that is plug ready for the Argonaut 509 in mint condition. (Wired into the AGC loop of the 509. Will sell the package for \$350.00 shipped.

Reply to: rhett@willow.mhs.compuserve.com
or call
(919)639-1030 after 5pm EST.

From ab4el.com Thu Sep 8 02:42:01 1994
From: "SHEPARD, PHIL" <pwshepar@mg.sp-eug.com>
Subject: Freq. Counter for Sale

Hi Gang,

I've got an extra frequency counter that needs a new home. I was thinking of adapting it as a digital display for one of my direct conversion rigs (HW-7, HW-8), but I never seem to find the time. Anyway, it's a DATASCAN C1200, 8 digit portable counter. That model is rated to 1.0 GHz, but a label on the unit back and box say that it was factory upgraded to the C1400 specs (1.4 GHz). It is in excellent shape, except

that the internal nicads are weak. It does have the AC adapter though.
I think I bought it for \$120 about 6 years ago. I'd like to get \$40 for it.

73,

Phil Shepard
NS7P
phils@sp-eug.com

(503)683-5701x3320 days
(503)935-3124 evenings, weekends

From ab4el.com Wed Sep 7 00:30:17 1994
From: MHUNT@vax.micron.com
Subject: RE: Key Fright and OTHER problems

KELL@LARK.JSC.NASA.GOV writes

>If anyone can offer some suggestions to help, I would appreciate them. My rig
>is a NORCAL 40, into a W7EL wattmeter, into a Super Tee ATU to a wire thrown
>into a tree about 30 feet up with an equal amount of wire on the ground.

This is probably a stupid question BUT, doesn't this configuration measure the power going into the tuner and not the power going into the antenna? Is it the same as placing the wattmeter after the tuner? What is the best way to configure these components?

I have an OHR HP running into an MFJ QRP tuner (forgot the number but goes with the 90XX series of QRP rigs) so I just tune for lowest SWR and go. I haven't opened it up to see where it taps into the signal for measuring power.

72 Michael KB7PQP

mhunt@vax.micron.com

From ab4el.com Wed Sep 7 01:22:04 1994
From: Lashley.H.Mann.II@cdc.com
Subject: Re: Key Fright and OTHER problems

The key to making contacts is in the antenna. I'm not sure what band you're trying to use (40?) but a simple dipole will work well.

Also, don't be fooled by the swr that you are reading. The antenna tuner is in fact an antenna tuner in name only. It just fools the transmitter into thinking that it is operating into the proper load or a tuned system. If the antenna isn't really tuned (or close to resonant) it will not work well if at all.

The key to most everything in this hobby is antenna, antenna, antenna.

Lee

```
*****
*                <<< CONTROL DATA SYSTEMS >>>                *
*****
* Lashley H. Mann II                                aka: Lee      *
* 5500 Cherokee Ave. #410                          email: l.mann@cdc.com *
* Alexandria, VA 22312                             phone: 703-813-6710  *
*****
```

From ab4el.com Wed Sep 7 16:32:13 1994
From: kilgore@tivoli.com (Jeff Kilgore)
Subject: Re: Key Fright and OTHER problems

Ted,

I don't have any specific suggestions, but I would be glad to set up a sked with you. I am located in Georgetown, Texas, which is about 20 miles northwest of Austin. I can usually manage to get on the air any evening after 7 PM local, except for Mondays, and often on Sat and Sun as well.

I'm afraid my CW has gotten quite rusty, having made very few CW contacts during the last few years. I need to get back into shape, as I am getting sort of bored with SSB all the time.

72,
Jeff Kilgore, KC1MK (kilgore@tivoli.com)

From ab4el.com Wed Sep 7 06:29:29 1994
From: uunet!hambbs.wb3ffv.ampr.org!Mike.Czuhajewski (Mike Czuhajewski)
Subject: Milliwatts coming along

I just sent out the "raw materials" of the Milliwatt (ie, first generation photocopies of the actual magazines which took me several hours of time on the copying machine back in 1992) to the thus-far anonymous person who is helping me. He's going to have the printer do a trial run and see how they come out, and they figure how much we have to charge. (Although this will ultimately be a non-profit operation,

there will be quite a few miscellaneous expenses, starting with the outrageous \$7.33 I paid to send it UPS thru a commercial mailing place.

US mail would have been cheaper, even with insurance, but...never mind, no political comments today!) I'll make further postings when something develops. (And please ignore the oddball address I used to post this to; I simply cannot use qrp-l@netcom.com directly, since I always get "unknown user" rejects when I try that--and I've got a half a disk full of rejects to prove it!) 73 and Queue Our Pea DE WA8MCQ
--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
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From ab4el.com Wed Sep 7 06:58:11 1994
From: Charlos Potma <Charlos.Potma@rivm.nl>
Subject: Mitsubishi/NEC 2SC1969 different ?

hello all,

I'm building a small DSB/CW 40m transceiver, following an article which was published in the journal of the BQC (Benelux *) QRP Club) earlier this year. It is based on the TCA440 chip (made by Siemens originally, but now manufactured somewhere in Eastern Europe). The desing specifies a 2SC1969 as final PA. It produces an output of 200 mW instead of the 1 W specified in the article. I spoke to the designer and he told me that he used a 2SC1969 made by Mitsubishi and that the same type manufactured by NEC (which I used) had a much lower Ft hence the lower output. Could anyone on this list with access to the relevant data verify this ?. I find it a bit hard to believe that transistors of the same type but made by different manufacturers can differ so much in specifications.

*) Benelux: Belgium, Netherlands and Luxemburg...

73,
charlos potma, PA3CKR
charlos@rivm.nl

From ab4el.com Wed Sep 7 13:53:03 1994
Subject: Re: Mitsubishi/NEC 2SC1969 different ?
From: "John F. Woods" <jfw@ksr.com>

> I find
> it a bit hard to believe that transistors of the same type

> but made by different manufacturers can differ so much in
> specifications.

Ah, welcome to the world of transistors.

With standardized transistors, what frequently happens is that a manufacturer who decides to offer a new transistor type may just look at the current inventory to find a transistor that meets the published specs. NEC's transistor (with the lower Ft) may be closer to the archetypal specs of the 2SC1969 type, and Mitsubishi's may just be some transistor they had on the assembly line that had at least the minimum gain at the design frequency of the 2SC1969 type, no more than the maximum gain, and at least as high an Ft. So, a circuit designed to the standardized specs will work predictably (as long as you remember to make the circuit depend on external components and not on the characteristics of the particular transistor), but a circuit designed around a sample from a manufacturer will not be repeatable. I think this probably happens a lot in amateur designs, where output power tends to be measured after the fact rather than designed in from the start...

From ab4el.com Thu Sep 8 12:44:12 1994
From: montp@minerva.robadome.com (Mont Pierce)
Subject: Please stop: "keep the list"

There has been a tremendous amount of traffic on where to go with this list. Perhaps some of you do not realize it, but a number of people on this list have to pay for all their email traffic in one way or another. Can we stop this kind of traffic now?

If someone is taking a poll on where to put this list, can you make your email address known so people can reply directly to you rather than sending their opinions to everyone?!?! It would be much appreciated.

If no one stand forward to accept this info, then I think you can safely assume that the list has meet it's resting place. Questions regarding digest availability and the like should go to the new list owner "owner-qrp-1@netcom.com" not to everyone on the list.

Please everyone, let's try to keep the extraneous postings to this list to a minimum. I'm sure that there are many who are currently unsubscribed or contemplating such just because of all the non-qrp traffic that has been taking place here.

Thanks for your consideration,
km6wt

From ab4el.com Tue Sep 6 21:55:36 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)

Subject: Re Test/non-flame

Thanks for the replies, which, as requested were not flames! Here's the deal--I am addressing this particular message to qrp-1%netcom.com@anagld. Note that is NOT anagld.netcom.com, although that will appear on my incoming posting. Two earlier comments suggested sending to qrp-1%netcom.com@bu.edu, and some other host instead of bu.edu. I tried both of those. Those did not reject, they also did not appear anywhere--fell into a black hole. My own sysop says the problem may be due to being on UUCP and not directly on Internet. All I know is that if I send to anything--anything at all--on netcom.com directly, it will be rejected by netcom.com itself as "unknown user". Just today I got my message to kaul@netcom.com kicked back as unknown user; and yet he told me to use that address for testing purposes (which I will do). I had sent him a comment on his previous post, but as I said, anything whatsoever to netcom.com gets bounced (kaul, qrp-1, listserv, etc).

This is somewhat similar, perhaps, to the troubles I have getting to zack lau (zlau@arrl.org), and soon I will try sending him something aliased thru anagld. I already tried one to him aliased thru bu.edu, and that got black-holed as well. For what it's worth, many of you folks have never received comments from me on some of your postings, but I did send them. I have gotten unknown user rejects from a wide variety of hosts across the country, with correctly addressed messages--these are the hosts the people are on, telling me they are NOT on them. I've asked a few people what anagld is, and no one has had the answer yet; all I know is that aliasing thru anagld works. A bit cumbersome, but it works...and nothing sent directly to netcom.com does. Again, thanks for all the comments and 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
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From ab4el.com Wed Sep 7 05:13:01 1994

From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)

Subject: Re stripping wire

Well, here's what we do at work--we hold it on a soldering iron and feed in a bit of solder and the insulation melts right off. Of course this requires slightly different wire; I don't know what the currently available tradenames are for the stuff, but one I remember from years ago is Solderize. It's called solder strippable wire, and the insulation is NOT the tough-as-nails formvar. After you use the stuff for a while, you can identify it at 50 yards...well, maybe a bit closer

than that, but it does have a distinctive appearance which you quickly learn to spot, a bit duller than regular enamel wire. You might also check old TVs, etc, which frequently had coils wound with this type of wire; the amounts are fairly small, but could be worth stripping. I would assume that some of the electronics catalogs have this particular wire available, though I haven't checked. 73 and Queue Our Pea DE
WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
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From ab4el.com Thu Sep 8 00:40:30 1994
From: Robert Gobrick <bgobrick@random.ucs.mun.ca>
Subject: Re: Re stripping wire

Mike -

I think John KC2DU has a raised a great "mini" topic for your tech tidbit column in the QRP Quarterly especially since you've written just about everything else about torroids.

I have been on a mission the last few years at Dayton asking everyone who would listen "How do you strip the insulation off of the torroid wire? The responses that I've seen here on INET are some of the best I've heard and someone needs to capture it for posterity and newbies.

I've tried everything exacto blade scraping and fine emory paper - inevetiably break the wire JUST before it's about to be soldered or it solders as a cold joint. I've tried the cigarette lighter burn-it-off trick and I usually end up burning my fingers. The GC Chemical goop sounds interesting - I'll have to look for some and finally the Solder-ese wire sounds the best - Who sells/stocks it? Does Dannys Small Parts carry it? Ocean? Digi? Mouser?

My goal is to make torroid coils like what comes from Oak Hills Research - nicely cleaned and tinned - they must have a hot vat of GC goop, hot vat of cleaner and hot Vat of solder and just dip the leads in one at a time - their coils look Maaaaarvelous.

Anyway Mike the article is half written so sure would appreciate you polishing it up for the Quarterly.

Tnx 72 Bob VO1DRB/WA6ERB

On Wed, 7 Sep 1994, Mike Czuhajewski wrote:

> Well, here's what we do at work--we hold it on a soldering iron and
> feed in a bit of solder and the insulation melts right off. Of course
> this requires slightly different wire; I don't know what the currently
> available tradenames are for the stuff, but one I remember from years
> ago is Soldereze. It's called solder strippable wire, and the
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> WA8MCQ
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> Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
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>

From ab4el.com Wed Sep 7 22:48:18 1994
From: Lashley.H.Mann.II@cdc.com
Subject: Re[2]: Ready for 160M fun

As I recall the DX window on 160 is 1825-1830 (usually CW)
with SSB DX just above that. So I'd suggest that you stay
down in the lower 10-15 KHz of the band

Lee

From ab4el.com Tue Sep 6 20:58:36 1994
From: teda@meaddata.com (Ted Albert)
Subject: Re: Ready for 160M fun

> As you 160 ops know, resonate antennas for 160 are a little unweildy
> and very sharp tuning. In case someone decides to join you in the
> fun, what QRP hailing frequencies do you suggest?

>
> 72/73
> C. C. (Clay) Wynn, N4AOX
> wyn@ornl.gov
>

I usually call around 1.812 MHZ. I even worked a fella there who claimed to be
running 100 mw. How about 1.812 for cw?

73 de Ted, KF8EE

From ab4el.com Wed Sep 7 00:59:03 1994
From: jeffrey@math.hawaii.edu
Subject: Re: Ready for 160M fun

In keeping with the (lower band edge + 40 kc) standard, how about 1840 kc?

Jeff NH6IL

From ab4el.com Wed Sep 7 03:38:16 1994
From: rdkeys@csemail.cropsci.ncsu.edu (R. D. Keys)
Subject: Re: Ready for 160M fun

>
> As you 160 ops know, resonate antennas for 160 are a little unweildy
> and very sharp tuning. In case someone decides to join you in the
> fun, what QRP hailing frequencies do you suggest?
>
> 72/73
> C. C. (Clay) Wynn, N4AOX
> wyn@ornl.gov
>
>

A good QRG for 160 CW is 1805 khz. It is usually always quiet.

Now that I have let the cat out of the bag, there won't be room to git a dit in edgwise..... (:+}}.....

Bob
NA4G

QRP/Boatanchor QRP/ arc/spark/alternator/model-T-ford coil/ whatever....

From ab4el.com Wed Sep 7 13:36:10 1994
From: teda@meaddata.com (Ted Albert)
Subject: Re: Ready for 160M fun

> In keeping with the (lower band edge + 40 kc) standard, how about
> 1840 kc?
>
> Jeff NH6IL

Well, you are bound to get clobbered by SSB stations that hang on that frequency chasing DX. There used to be a gentleman's agreement about a DX window that I think covers 1840. We can't go 1860 because of the R.A.I.N. station that broadcasts endless garbage using AM. I think 1812 would be the better choice, but I will defer to the group consensus.

73 de Ted, KF8EE

From ab4el.com Tue Sep 6 20:34:14 1994

From: teda@meaddata.com (Ted Albert)

Subject: Re: Ready for 160m fun ?

> Whoa! An Argonaut II !!!! ***I'M*** impressed! I did not think T*T
> actually sold any of those. Cool. Now we know how has all the money in
> this group :-)
>
> 73 =paul=
> wb8zjl
>

he..he..he.. As far as I can tell, there are only two of us in QRP ARCI with the Argo II, the other guy is Randy AA2U, I think that is his call. The Argo II was a present to myself after getting my second masters degree. See everyone on 160 this winter. Will be interesting to see which rig gets the better reports. This will be the first winter for the Howes.

73 de Ted, KF8EE

From ab4el.com Wed Sep 7 01:27:32 1994

From: prvalko <prvalko@vela.acs.oakland.edu>

Subject: Re: Ready for 160m fun ?

On Tue, 6 Sep 1994, Ted Albert wrote:

> Hmmm I have been a ham 23 years now and am 37 and I just got going
> on 160 last winter. I will be there with my Ten-Tec Argonaut II and a Howes
> AT160 this winter.

Whoa! An Argonaut II !!!! ***I'M*** impressed! I did not think T*T actually sold any of those. Cool. Now we know how has all the money in this group :-)

73 =paul=
wb8zjl

From ab4e1.com Wed Sep 7 13:41:49 1994
From: alsun150!jvm@aluxs.att.com (Jim Morgan)
Subject: Solder-eze wire: where to get it ?

>
> These days I sell the varnish insulated dwire I have at hamfests. For my own
> use I get stuff with "Solder-eze" insulation. This stuff strips off with the
> heat of a soldering iron. Much nicer. BTW, you can usually tell the
> "solder-eze" stuff by its color. Formvar is a dark tan, while the good stuff
> is often a light tan, red or green. The different colors also make identifying
> the leads in a bi- or tri-filar winding much easier.
>
> 72,
>
> Joe E. N2CX
>

Joe and several others mentioned this wire, which I also have had experience with. It works really well! The only concern I would have is whether a high current (due to some other component failure) through a coil wound with such wire could melt the insulation.

Does anyone know the manufacturer or distributor for this wire ? Can it be obtained in small quantities ?

73, Jim Morgan WX4D/3 jvm@aluxpo.att.com

From ab4e1.com Sat Sep 3 05:43:46 1994
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: Re: Time for a FAQ??

Steve,

I would like to work with you on keeping the K5FO Newsletter archived there. What I want to do is to keep the archive 60 days behind the newsletter, that way there is still an incentive to get the original. What I'm talking about here is the PostScript copy of the newsletter in full form.

What say you?

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4e1.com Thu Sep 8 02:40:09 1994
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Subject: Unsub Instructions!

Here again are the instructions on how to unsubscribe. Send an email to:

listserv@netcom.com and only write:

unsubscribe qrp-1

and that should work. Note the 'e' is dropped from the word 'serve' in the address.

If that doesn't work then send a message to the list owner. But *please* don't send you unsub messages to 500 or so mailboxes.

Jeff NH6IL

From ab4e1.com Wed Sep 7 13:10:19 1994
From: Art Winterbauer <awinterb@du.edu>
Subject: Re: Welcome to The Hotel California

I recognize your frustration. I sent unsubscribe msgs to the two servers mentioned by other posters (can't recall their sites offhand) but only received a reply that I wasn't a member of the mailing list! Talk about a nightmare worthy of Kafka....

Art Winterbauer N00QS
Internet: awinterb@du.edu OR awinterb@diana.cair.du.edu
Packet: n0oqs @ n0rse.co.usa

On Tue, 6 Sep 1994, Kearman, Jim, KR1S wrote:

>
>
> I have tried to check out, but I can't seem to leave this list! Sorry, but
> the volume exceeds my ability to keep up. List op, please pull the plug!
>
> 73
>
> Jim, KR1S
>

From ab4el.com Thu Sep 8 00:27:14 1994
From: dshalita@rogue.com (David Shalita)
Subject: Xtal / Ceramic Filters

>I need to build a crystal filter for a receiver that I am designing
>but I can't seem to find any information exactly on how to do it.
>I need a IF frequency of around 9 to 12 mhz and a bandwidth of about
>2400 for SSB. This will be for 10 meters. What are the formulas for
>this? I am hoping to build them for other frequencies also so a
>fair amount of detail would be great! Thanks and 73!

#AL N1AL replies:

#To do a paper design, you need to know the parameters of the crystals,
#namely the series-resonant frequency, motional inductance or capacitance,
#shunt capacitance and (possible) motional resistance. The design is
#not trivial.

#An easier method is trial and error. Start with a signal crystal:

```
#  --+---crystal---trimmer_capacitor---+---
#      |                                     |
#  trimmer                               trimmer
#  capacitor                             capacitor
#      |                                     |
#  ground                               ground
```

#Tune the series cap for the desired center frequency and the shunt
#capacitors for a little wider than the desired bandwidth (and
#minimum insertion loss.) Now build another identical section.
#Then connect the two sections in series. (You only need
#one shunt trimmer capacitor, not two, where the two sections meet.)
#adjust the center section for proper coupling. If the cap is
#too small, you are over-coupled which gives a double-hump response.
#If the cap is too large, you are under-coupled which causes
#excessive insertion loss.

#Then build another two-section filter and add it in series with
#the other to get a 4-crystal filter. Again adjust the common
#shunt cap for proper coupleing. I have found that 4 crystals
#give a reassonable shape factor and excellent ultimate rejection
#if proper shielding and grounding techniques are used.

#

#Of course, you need some kind of sweep oscillator to make this
#method practical. Perhaps you can borrow someone's Heathkit
#Scyzer if real test equipment is not available.

#

#AL N1AL

I also need to build xtal filters for a NE-602 project and this method looks attractive. Need following filters:

10.7 mhz 55 khz bandwidth

10.7 mhz 15 khz bandwidth

Can I use cheap Microprocessor xtals for this 10.7 mhz task?

Can I make a xtal filter "as wide as" 55khz or 15khz with thithe?

How can I determine input and output impedance requirements for the xtal filters produced by this method?

A second related question about 10.7 mhz filters.

The circuit application is a NE-602 used as a mixer driving a chain of ceramic filters into a CA-3089 FM IF driving an LM380 audio amp.

My question concerns the ceramic filter(s) feeding the CA-3089.

1st ckt uses two 10.7mhz 230khz ceramic filters between NE-602 and CA-3089.

2nd similar ckt uses three 10.7 mhz 230 khz filters.

How is bandwidth performance different with 3 identical bandwidth ceramic 10.7 mhz filters in series versus having 2 in series? Does it impact insertion loss? All filters seem matched at 330 ohms in and out.

Thanks for any help

Dave, w6mik

--

Internet : dshalita@rogue.com

AMPR.ORG :lp.w6mik.ampr.org [44.16.0.29]

AMPR.ORG :w6mik.ampr.org [44.16.0.26]

7833 Cantaloupe Ave. Van Nuys, CA 91402

From ab4el.com Wed Sep 7 03:40:53 1994

From: Bruce Robertson <brucerob@epas.utoronto.ca>

Subject: filters for elm

Bruce G. Robertson

Dept. of Classics, U. of Toronto

X-Mailer: ELM [version 2.4 PL23]

MIME-Version: 1.0

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit
Content-Length: 884

The problem of mail clutter for those of us used to the digest version seems to have deterred many from staying with the list. I was glad to hear that elm has a filter option that could port this mail somewhere unobtrusive. However, my man pages don't describe the procedure in detail. It seems to me that the person who suggested this would do all elm uses on the list a favour by posting the filter text, since it would be the same for all of us, I imagine.

Now for the QRP content (to justify the above): have any qrp antenna designers looked into using toroidal cores for loading short vertical antennas and for matching their lower impedance? It seems to me that they would be reasonably light for field work and with good q. I imagine putting them in 35mm film containers. This would make a 80m antenna short enough to be thrown up over a branch. What do you think?
72, VE3UWL

From ab4el.com Wed Sep 7 13:56:01 1994
From: Duane P Mantick <wb9omc@ecn.purdue.edu>
Subject: Re: filters for elm

>
> Bruce G. Robertson Dept. of Classics, U. of Toronto
> X-Mailer: ELM [version 2.4 PL23]
> MIME-Version: 1.0
> Content-Type: text/plain; charset=US-ASCII
> Content-Transfer-Encoding: 7bit
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> The problem of mail clutter for those of us used to the digest version seems
> to have deterred many from staying with the list. I was glad to hear
> that elm has a filter option that could port this mail somewhere unobtrusive.
> However, my man pages don't describe the procedure in detail. It seems
> to me that the person who suggested this would do all elm uses on the
> list a favour by posting the filter text, since it would be the same
> for all of us, I imagine.

Try working at a site where elm is more or less unsupported.
I have to admit, there have been several times when I have been tempted to unsubscribe just to cut the tremendous flow of mail coming at me. It only takes about a day and a half to have over 200 messages in my mailbox, 90 percent of which come from *this* list. 95 percent of those go in the bit bucket; meaning no disrespect to the posters, BTW. I just don't have the *time* to really dig into all of it, so I find myself

glossing over most of the QRP list material until something happens to catch my eye or whatever.

Quite honestly, I would rather have a regular newsgroup in some part of rec.ham-radio.qrp.<specific topic> but it seems as though most of the opinions posted here so far would rather not. Oh well. The newsgroup would allow me to use NN to filter through the stuff MUCH more easily than the mail handlers will, no to mention an easier ability to directly interact with other parts of rec.ham-radio.....

I think, though, given the level of some of the assholiness seen on rec.ham-radio from time to time (e.g., the code-vs-no-code flame fest), it would have to be a moderated newsgroup.

My .02 worth, not counting inflation. :-)

Duane
wb9omc

From ab4el.com Tue Sep 6 23:50:40 1994
From: stark <mswmod@sage.unr.edu>
Subject: Re: removing insulation

Hi John,

I have also used the goo from GC. Have never had it fail to work, but I too have no idea just what the insulation was. Think it was formvar but.....

Like all the nasty things under the sink, use caution when using it.

73's, Ron

.....KU7Y.....
.....Monte "Ron" Stark.....
.....Sun Valley, Nevada.....

From ab4el.com Wed Sep 7 00:43:44 1994
Subject: Re: removing insulation
From: "Stan Goldstein, N6ULU" <stan@cruzio.com>

John Spoonhower writes:

>

> Ok...I don't know about the rest of you, but I have never been really good at
> removing the insulation from formvar coated wire which I typically use to wind
> toroids. I was intrigued by the suggestion I saw in the Sept. QRPp to use
> paint/varnish remover to remove insulation instead of sanding/scraping etc.
> I have never had any success removing formvar chemically, so it's hard for
> me to believe that this really works. Can any one out there verify this
> from their experience? Is there some recipe of solvents which works better
> than most? Please share the wealth.
> 73, John Spoonhower, kc2du

I too have trouble removing the insulation on the coated wire.
Although I have seen guys very adroitly remove the thin layer
without so much as scratching the wire, I usually end up nicking
it beyond recognition.

What does work for me though , is holding a match under the wire
until the insulation burns off. I then do a quick clean up by
rubbing the wire end with a piece of sandpaper.

It's a fairly time consuming process and if paint remover does
work, I'd like to try that and see if it is a better method.

I have some paint thinner out at the moment , so I'll give it a try.

--

Stan Goldstein , N6ULU

From ab4el.com Wed Sep 7 01:18:54 1994
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Subject: Re: removing insulation

How about your YL/XLY's nail polish remover? Never tried it - the
thought just occurred to me.

I've used a match to burn off the insulation but then you have to
scrape off the burnt insulation - it's only a little easier.

Jeff NH6IL

From ab4el.com Wed Sep 7 01:39:00 1994
From: JEVERHART@cayman.vf.ge.com
Subject: RE: removing insulation

John,

Yes the paint remover that they USED to sell, 15 years or so ago, worked well.
You could go to any decent paint store and get a gallon of it quite cheaply. I
did for several companies I worked for. It stunk like He__ and was very
corrosive to clothing, skin painted surfaces, plastic, etc. In these days of
EPA they may have toned down the mix somewhat.

These days I sell the varnish insulated dwire I have at hamfests. For my own

use I get stuff with "Solder-eze" insulation. This stuff strips off with the heat of a soldering iron. Much nicer. BTW, you can usually tell the "solder-eze" stuff by its color. Formvar is a dark tan, while the good stuff is often a light tan, red or green. The different colors also make identifying the leads in a bi- or tri-filar winding much easier.

72,

Joe E. N2CX

From ab4el.com Wed Sep 7 03:41:02 1994
From: xenolith@halcyon.com (Kevin Purcell)
Subject: Re: test message to the list (ignore)

```
>>
>> >This is a test to the new list
>> >
>> >--
>> >Dave Dabay      Telecommunications Engineer Supervisor      KD3PC
>> >Radford University Network Services      Internet: ddabay@ruacad.ac.runet.edu
>>
>> Of course it works you dimwit!
>>
>> Why not post a meaningful message?
>>
>> UP LID :-)
```

>> Kevin Purcell, N7WIM / G8UDP	kevinpu@eve.atm.com	206/649-6489
>> Attachmate Corp	xenolith@halcyon.com	

```
>
>
>For your information DIMWIT!! We have had a problem getting mail to/from and
>through a new mail server. Rather that flood MANY lists with useless
>garbage ala your post...with 10,000 users I thought a test would be
>appropriate.
>With over 200 servers, and MANY alias databases, things like name changes are
>not a trivial thing to us..
```

So its OK to waste space in other peoples mailboxes? Right.

```
>
>Excuse me for thinking and testing, something that seems to be a thing of
>past. I apologize to the others for taking bandwidth with this, but come
>on guys, think about the other folks before toasting off.
>
>BTW the message did say test, please ignore. Didn't it???
>
>dave
```

>

>

>

>

>--

>Dave Dabay Telecommunications Engineer Supervisor KD3PC
>Radford University Network Services Internet: ddabay@esprit.runet.edu

Hey dude. That original message went direct to you not to the QRP-L list.

This has been sent to the list for clarification.

DON'T SEND TEST MESSAGES TO ANY LIST. Ask a real question, make the message have some QRP content.

Testy and ticked off at all the "noise" messages on the list (including this one :-)

ObQRP:

The quadrature hybrid transformers are good for about an octave and have been described in a QST article and in articles in the Microwave journal. I'll dig out my reference. Send me some mail so as I actually do this!

ObNewsgroupTalk:

NO to the newsgroup! You think the junk mail is bad now, just wait till you get on the newsgroup. I cite antennas (and to a less case homebrew) as the basis for this argument.

This group is one of the closest knit mailing lists I've experiences. It would be a shame to loose that JUST to open it up to the world.

If you must have a newsgroup, do gateway the list. Leave it the way it is.

72/73

Kevin Purcell, N7WIM / G8UDP xenolith@halcyon.com 206/649-6489
Seattle dBug Mac Developers SIG organiser